

We claim:

1. <sup>or</sup> A method for inhibiting the growth of cancerous and precancerous cell populations comprising the step of applying a therapeutic amount of eugenol to said cell population for a sufficient time to observe arrest of population growth.

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2. The method of Claim 1 further comprising the step of applying a therapeutic amount of 2-ME in combination with said amount of eugenol to said cell population.

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3. The method of claim 1 wherein said cancerous cell populations are prostate cancer cells.

4. A therapeutic agent useful in the prevention and treatment of cancerous tumors comprising eugenol and 2-methoxyestradiol.

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5. The therapeutic agent of Claim 4 wherein said cancerous tumors are prostate cancer tumors.

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6. A therapeutic agent for the prevention and treatment of enlarged, non-cancerous prostate <sup>t</sup>tissues comprising a therapeutic dosage of 2-methoxyestradiol.

7. The therapeutic agent of Claim 6 further comprising a therapeutic dosage of eugenol.

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8. A method for preventing the development of, or for treating existing enlarged, non-cancerous prostate glands in mammals, comprising the steps of administering a therapeutic dosage of 2-methoxyestradiol.

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9. The method of Claim 8 further comprising the administration of a therapeutic dosage of eugenol in combination with said 2-methoxyestradiol.

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